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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/751,188	12/30/2003	Hideki Nakata	10873.1369US01	3394
53148 7590 12/26/2007 HAMRE, SCHUMANN, MUELLER & LARSON P.C. P.O. BOX 2902-0902	EXAMINER			
P.O. BOX 2902-0902		PSITOS, ARISTOTELIS M		
MINNEAPOL	IS, MN 55402		ART UNIT	PAPER NUMBER
			2627	
			MAIL DATE	DELIVERY MODE
			12/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/751,188	NAKATA ET AL.				
Office Action Summary	Examiner	Art Unit				
•		2627				
The MAILING DATE of this communication	Aristotelis M. Psitos					
Period for Reply	appears on are out or ended are					
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC. R 1.136(a). In no event, however, may a reprised will apply and will expire SIX (6) MONT atute, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on 0.	<u> 3 December 2007</u> .	•				
2a) This action is FINAL . 2b) ⊠ T	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allo	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 2,4-8,11-13,15 and 16 is/are pend	ing in the application.					
4a) Of the above claim(s) is/are without						
5) Claim(s) is/are allowed.						
6) Claim(s) 2,4-8,11-13,15 and 16 is/are reject	ted.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction an	d/or election requirement.					
Application Papers		·				
9)☐ The specification is objected to by the Exam	ningr.					
10) ☐ The specification is objected to by the Exam		v the Examiner				
Applicant may not request that any objection to	· · · · · · · · · · · · · · · · · · ·					
Replacement drawing sheet(s) including the cor	= ' '					
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
_	ian priority under 25 U.S.C. \$	110(a) (d) or (f)				
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	eigh phonty under 55 0.5.C. §	119(a)-(u) 01 (1).				
1. Certified copies of the priority docum	ents have been received					
2. Certified copies of the priority docum		polication No.				
3. Copies of the certified copies of the p						
application from the International Bur		Ç				
* See the attached detailed Office action for a		eceived.				
•						
Attachmant(a)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Su	immary (PTO-413)				
2) Notice of References Ched (PTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Inf 6) Other:	formal Patent Application 				

DETAILED ACTION

Applicants' response of 12/3/07 has been considered with the following results.

The arguments filed have been entered. Since they overcome the previous rejection, and further the prosecution, the FINALITY of the previous OA is withdrawn and the following action is taken.

No art is applied against this claim.

Claim Objections

Claim 16 is objected to because of the following informalities: The limitation, as interpreted by the examiner appears to contradict the parent claim 15, in that the first and second optical films, elements 40 and 41 respectively in figure 22A do intersect at their vertex. Further explanation is respectfully required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 2,4-7,11,13 and 15 rejected under 35 U.S.C. 102(b) as being anticipated by Hasman et 1. al.

The following analysis is made.

Claim 1.

An optical head comprising:

First light source ---

Second light source ---

Third light source -----

A beam splitter

see $\lambda 1 - 4$ for instance

and disclosure thereof.

Hasman et al

yes - inherent in reference

Note figures 2/3

see discussion of

Dichroic beam splitter/prisms 38,41,

37, 40 in figure 3.

see first - third prisms in Hasman et al

1st, 2nd, 3rd, prisms

1st.2nd.3rd, films see description of the films starting at Art Unit: 2627

3. Resolving the level of ordinary skill in the pertinent art.

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1. Claims 2,4-7,11,13 and 15 rejected under 35 U.S.C. 102(b) as being anticipated by Hasman et al.

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see first - third prisms in Hasman et al

1st, 2nd,3rd, prisms

1st,2nd,3rd, films

see description of the films starting at

Col. 5 line 40.

The above Hasman et al reference discloses a multi wavelength optical rec/repr system.

With respect to claims 2,4-5 all such limitations are considered present, i.e., triangular/hexahedral beam splitter – prism – dichoric splitter/prism with appropriate films at the required planar positions in order to perform the overall splitting functions, as well as the wavelength selections.

With respect to the functional limitations of claims 6 and 7 such are considered met by the above reference, the filer layers perform the desired functions upon the desired wavelengths in order to combine the incoming signals.

With respect to claim 11, this is not interpreted as a manufacturing claim, i.e., merely a designation of materials of the beam-splitter, and such is present in the above combined teachings.

With respect to claim 13, such is disclosed in Hasman et al.

Response to Arguments

Applicant's arguments filed 12/3/07 have been fully considered but they are not persuasive.

Applicants' argue with respect to figure 22A in identifying the optical films etc. is greatly appreciated; however, as described in figure 2 of Hasman et al (5526338), such elements are depicted. Hence the examiner concludes that the claimed limitations with respect to those elements are clearly found.

2 Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over the art as applied to claim 1 as stated in either paragraph 1 above, and further in view of Official notice.

The use of the appropriate filter element in Dichroic beam splitting prism is considered well known in the art, and official notice is taken thereof. Furthermore, the shapes recited in claim 9 are also considered well known and official notice is taken of these limitations as well.

With respect to the placement of the film at the central portion of the beam-splitting device is concerned, since the teaching in the above combined references covers the entire plane incident to the

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incoming wavelength from the laser source, such a limitation is considered an optimization of systems parameter and obvious to one of ordinary skill in the art – see <u>In re Peterson65USPQ2nd 1379.</u>

3 Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over the art as applied to claim 1 as stated in paragraph 1 above, and further in view of Opheij.

With respect to the limitation of this claim, Opheij teaches in this environment the ability of providing the collimator/ing lens integral with a prism.

It would have been obvious to modify the base system as relied upon above in paragraph

1 above with the additional teaching from Opheij, motivation is as discussed in Opheij.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Arai et al is cited as also illustrative of a multi-beam prismatic arrangement in this environment.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aristotelis M. Psitos whose telephone number is (571) 272-7594. The examiner can normally be reached on M-Thru: 6:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne D. Bost can be reached on (571) 272-7023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Aristotelis M Psitos Primary Examiner Art Unit 2627

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